

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
16 October 2003 (16.10.2003)

PCT

(10) International Publication Number
WO 03/084337 A1

- (51) International Patent Classification⁷: **A23D 9/00**, 7/00, C11C 3/10
- (21) International Application Number: PCT/EP03/02625
- (22) International Filing Date: 10 March 2003 (10.03.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
02076376.9 9 April 2002 (09.04.2002) EP
- (71) Applicant (for AL, AM, AT, AZ, BA, BE, BF, BG, BJ, BR, BY, CF, CG, CH, CI, CM, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, FR, GA, GE, GN, GQ, GR, GW, HR, HU, ID, IS, IT, JP, KG, KP, KR, KZ, LR, LT, LU, LV, MA, MC, MD, MG, MK, ML, MR, MX, MZ, NE, NI, NL, NO, PH, PL, PT, RO, RU, SE, SI, SK, SN, TD, TG, TJ, TM, TN, TR, UA, UZ, VN, YU only): **UNILEVER N.V.** [NL/NL]; UNILEVER N.V., Weena 455, NL-3013 AL Rotterdam (NL).
- (71) Applicant (for AE, AG, AU, BB, BZ, CA, CY, GB, GD, GH, GM, IE, IL, KE, LC, LK, LS, MN, MW, NZ, OM, SC, SD, SG, SL, SZ, TT, TZ, UG, VC, ZA, ZM, ZW only): **UNILEVER PLC** [GB/GB]; UNILEVER HOUSE, Blackfriars, London, Greater London EC4 4BQ (GB).
- (71) Applicant (for IN only): **HINDUSTAN LEVER LIMITED** [IN/IN]; Hindustan Lever House, 165/166 Backbay Reclamation, Maharashtra, 400 020 Mumbai (IN).
- (72) Inventor; and
(75) Inventor/Applicant (for US only): **FLOETER, Eckhard** [DE/NL]; Unilever R & D Vlaardingen, Olivier van Noortlaan 120, NL-3133 AT Vlaardingen (NL).
- (74) Agent: **VELZEN, VAN, Maaïke, M.**; Unilever NV, Patent Department, Olivier van Noortlaan 120, NL-3133 AT Vlaardingen (NL).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:**
— with international search report
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: TRIGLYCERIDE FAT

(57) Abstract: A fat suited as fat phase for the manufacture of low fat spreads which are stable at elevated ambient temperatures which fat comprises a mixture of triglycerides, in which- 2.5 to 5.5 wt.% of the triglycerides are HHH triglycerides,- 25 to 65 wt.%, preferably 25 to 55 wt.% of the HHH triglycerides are monoacid triglycerides and the remaining HHH triglycerides are composed of mixed fatty acid residues,- 1.5 to 5 wt.% of the triglycerides are HHM and HMH triglycerides,- at least 85 wt.% of the fatty acid residues H in HHM and HMH are palmitic acid residues, where H denotes saturated fatty acid residues having chain lengths larger than 15 carbon atoms and M denotes saturated fatty acid residues having chain lengths of either 12 or 14 carbon atoms and where the M-residue is placed either in the middle or in one of the terminal positions. Such fat phase can be obtained by incorporating in a triglyceride oil a fat A and a fat B where the fat A and the fat B together amount to 6-15 wt.% of the fat and the A/B weigh ratio is in the range 1/9 to 4/6, characterized in that of fat A- at least 50 wt.% of the triglycerides are fully saturated - at least 80 wt.% of the constituting saturated fatty acid residues have a chain length of 16 carbon atoms (P) or 18 carbon atoms (S), the ratio P:S being in the range 75:25 - 25:75,- up to 5 wt.% of the saturated fatty acid residues have a chain length of 12 or 14 carbon atoms and in that of fat B- at least 20 wt.%, preferably at least 25 wt.% of the triglycerides consist of HHM and HMH triglycerides.

WO 03/084337 A1